



J
Docket No.: 826.1335C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Kensaku IMAI, et al.

Serial No. 09/785,269

Group Art Unit: 1631

Confirmation No. 2896

Filed: February 20, 2001

Examiner: John S. Brusca

For: METHOD AND APPARATUS FOR AUTOMATICALLY REMOVING VECTOR UNIT IN
DNA BASE SEQUENCE

STATEMENT REGARDING SEQUENCE LISTING

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The undersigned hereby states that the sequence listing information recorded in
computer readable form is identical to the written sequence listing.

Respectfully submitted,

STAAS & HALSEY LLP

Date: 5/9/03

By: [Signature]
William F. Herbert
Registration No. 31,024

700 Eleventh Street, NW, Suite 500
Washington, D.C. 20001
(202) 434-1500



Docket No. 826.1335C/WFH

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kensaku IMAI et al.

Serial No.: 09/785,269

Group Art Unit: 1631

Confirmation No. 2896

Filed: February 20, 2001

Examiner: John S. Brusca

For: METHOD AND APPARATUS FOR AUTOMATICALLY REMOVING VECTOR UNIT IN DNA
BASE SEQUENCE

SUBMISSION OF SEQUENCE LISTING

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Attached a paper and computer readable copies of a "Sequence Listing."

I hereby state that the contents of the attached paper copy and the computer readable copy, submitted herewith in accordance with 37 C.F.R. §1.821(c) and (e), respectively, are the same.

I hereby state that the submission, filed in accordance with 37 C.F.R. §1.821(g), herein does not include new matter.

Respectfully submitted,

Date: 5/9/03


William F. Herbert
Registration No. 31,024

STAAS & HALSEY
700 Eleventh Street, N.W.
Suite 500
Washington, D.C. 20001
(202) 434-1500



Sequence.ST25

SEQUENCE LISTING

<110> Imai, Kensaku
Kitajima, Masato

<120> METHOD AND APPARATUS FOR AUTOMATICALLY REMOVING VECTOR UNIT
IN
DNA BASE SEQUENCE

<130> 826.1335C

<140> 09/785,269

<141> 2001-02-20

<150> 08/684,674

<151> 1996-07-22

<160> 23

<170> PatentIn version 3.2

```
<210> 1
<211> 17
<212> DNA
<213> Homo sapiens
```

```
<400> 1
atgcatgcta gctagct
17
```

```
<210> 2
<211> 17
<212> DNA
<213> Homo sapiens
```

```
<400> 2
tacgtacgat cgatcga
17
```

```
<210> 3
<211> 17
<212> DNA
<213> Homo sapiens
```

<400> 3
agctagctag catgcat
17

<210> 4
<211> 11
<212> DNA
<213> Homo sapiens

<400> 4
gtgccaagct t
11

<210> 5
<211> 57
<212> DNA
<213> Homo sapiens

<400> 5
gaattcgagc tcggtacccg gggatcctct agagtcgacc tgcaggcatg caagctt
57

<210> 6
<211> 57
<212> DNA
<213> Homo sapiens

<400> 6
aagcttgcat gcctgcaggt cgactctaga ggatccccgg gtaccgagct cgaattc
57

<210> 7
<211> 18
<212> DNA
<213> Homo sapiens

<400> 7
tgcacttgaa cgcattgct
18

<210> 8

<211> 17
 <212> DNA
 <213> Homo sapiens

<400> 8
 tgcacttgaa cgctgct
 17

<210> 9
 <211> 17
 <212> DNA
 <213> Homo sapiens

<400> 9
 tgcacttgac gcatgct
 17

<210> 10
 <211> 17
 <212> DNA
 <213> Homo sapiens

<400> 10
 tgccttgaac gcatgct
 17

<210> 11
 <211> 2686
 <212> DNA
 <213> Homo sapiens

<400> 11
 tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacgggtca
 60

cagcttgtct gtaagcggat gccgggagca gacaagcccg tcagggcgcg tcagcgggtg
 120

ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc
 180

accatatgcy gtgtgaaata ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc
 240

Sequence.ST25

attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
300

tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggg
360

tttcccagtc acgacgttgt aaaacgacgg ccagtgccaa gcttgcacgc ctgcaggtcg
420

actctagagg atccccgggt accgagctcg aattcgtaat catggtcata gctgtttcct
480

gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag cataaagtgt
540

aaagcctggg gtgcctaata agtgagctaa ctacacattaa ttgcgttgcg ctactgccc
600

gctttccagt cgggaaacct gtcgtgccag ctgcattaat gaatcggcca acgcgcgggg
660

agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tcaactgactc gctgcgctcg
720

gtcgttcggc tgcggcgagc ggtatcagct cactcaaagg cggtaatacg gttatccaca
780

gaatcagggg ataacgcagg aaagaacatg tgagcaaaaag gccagcaaaa ggccaggaac
840

cgtaaaaagg ccgcgttgct ggcgtttttc cataggctcc gccccctga cgagcatcac
900

aaaaatcgac gctcaagtca gaggtggcga aaccgcacag gactataaag ataccaggcg
960

tttccccctg gaagctccct cgtgcgctct cctgttccga ccctgccgct taccggatac
1020

ctgtccgctt ttctcccttc gggaagcgtg gcgctttcct aaagctcacg ctgtaggtat
1080

ctcagttcgg ttaggtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgttcag
1140

Sequence.ST25

cccgaccgct gcgccttatc cggtaactat cgtcttgagt ccaacccggt aagacacgac
1200

ttatcgccac tggcagcagc cactggtaac aggattagca gagcgaggta tgtaggcggt
1260

gtacacagagt tcttgaagtg gtggcctaac tacggctaca ctagaagaac agtatttggt
1320

atctgcgctc tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc
1380

aaacaaacca ccgctggtag cggtggtttt tttgtttgca agcagcagat tacgcgcaga
1440

aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac
1500

gaaaactcac gttaagggat tttggtcatg agattatcaa aaaggatctt cacctagatc
1560

cttttaaatt aaaaatgaag ttttaaatac atctaaagta tatatgagta aacttgggtc
1620

gacagttacc aatgcttaat cagtgaggca cctatctcag cgatctgtct atttcgttca
1680

tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct
1740

ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca
1800

ataaaccagc cagccggaag ggccgagcgc agaagtggtc ctgcaacttt atccgcctcc
1860

atccagtcta ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg
1920

cgcaacgttg ttgccattgc tacaggcatc gtgggtgtcac gctcgtcggt tggatatggt
1980

tcattcagct ccggttccca acgatcaagg cgagttacat gatcccccat gttgtgcaaa
2040

aaagcggtta gtccttcggt tcctccgatc gttgtcagaa gtaagttggc cgcagtggtta

2100

tcactcatgg ttatggcagc actgcataat tctcttactg tcatgccatc cgtaagatgc
2160

ttttctgtga ctgggtgagta ctcaaccaag tcattctgag aatagtgtat gcggcgaccg
2220

agttgctctt gcccggcgtc aatacgggat aataccgcgc cacatagcag aactttaaaa
2280

gtgctcatca ttggaaaacg ttcttcgggg cgaaaactct caaggatctt accgctgttg
2340

agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc
2400

accagcgttt ctgggtgagc aaaaacagga aggcaaatg ccgcaaaaaa gggaataagg
2460

gcgacacgga aatggtgaat actcatactc ttcctttttc aatattattg aagcatttat
2520

caggggttatt gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata
2580

ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc
2640

atgacattaa cctataaaaa taggcgtatc acgaggccct ttcgtc
2686

<210> 12

<211> 67

<212> DNA

<213> Homo sapiens

<400> 12

gtgccaaagct tgcatgcctg caggtcgact ctagaggatc cccgggtacc gagctcgaat
60

tcgtaat

67

<210> 13
<211> 6
<212> DNA
<213> Homo sapiens

<400> 13
aagctt
6

<210> 14
<211> 6
<212> DNA
<213> Homo sapiens

<400> 14
gcatgc
6

<210> 15
<211> 6
<212> DNA
<213> Homo sapiens

<400> 15
ctgcag
6

<210> 16
<211> 6
<212> DNA
<213> Homo sapiens

<400> 16
gtcgac
6

<210> 17
<211> 6
<212> DNA
<213> Homo sapiens

<400> 17

tctaga
6

<210> 18
<211> 6
<212> DNA
<213> Homo sapiens

<400> 18
ggatcc
6

<210> 19
<211> 6
<212> DNA
<213> Homo sapiens

<400> 19
cccggg
6

<210> 20
<211> 6
<212> DNA
<213> Homo sapiens

<400> 20
ggtacc
6

<210> 21
<211> 6
<212> DNA
<213> Homo sapiens

<400> 21
gagctc
6

<210> 22
<211> 6

<212> DNA
<213> Homo sapiens

<400> 22
gaattc
6

<210> 23
<211> 38
<212> DNA
<213> Homo sapiens

<400> 23
tctagaggat ccccggtac cgagctcgaa ttcgtaat
38